

PATENT COOPERATION TREATY

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PS09 0483WO1

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NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
REPORT ON PATENTABILITY

(PCT Rule 71.1)

Date of mailing
(day/month/year)

10.10.2011

Applicant's or agent's file reference
PS09 0483WO1

IMPORTANT NOTIFICATION

International application No.
PCT/IB2010/050072

International filing date (day/month/year)
08.01.2010

Priority date (day/month/year)
15.07.2009

Applicant
SONY ERICSSON MOBILE COMMUNICATIONS AB

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the International
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PS09 0483WO1		FOR FURTHER ACTION		See Form PCT/PEA/416
International application No. PCT/IB2010/050072		International filing date (day/month/year) 08.01.2010	Priority date (day/month/year) 15.07.2009	
International Patent Classification (IPC) or national classification and IPC INV. G10L15/26				
Applicant SONY ERICSSON MOBILE COMMUNICATIONS AB				
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>7</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>9</u> sheets, as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and/or sheets containing rectifications authorized by this Authority, unless those sheets were superseded or cancelled, and any accompanying letters (see Rules 46.5, 66.8, 70.16, 91.2, and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets containing rectifications, where the decision was made by this Authority not to take them into account because they were not authorized by or notified to this Authority at the time when this Authority began to draw up this report, and any accompanying letters (Rules 66.4bis, 70.2(e), 70.16 and 91.2).</p> <p><input type="checkbox"/> superseded sheets and any accompanying letters, where this Authority either considers that the superseding sheets contain an amendment that goes beyond the disclosure in the international application as filed, or the superseding sheets were not accompanied by a letter indicating the basis for the amendments in the application as filed, as indicated in item 4 of Box No. I and the Supplemental Box (see Rule 70.16(b)).</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see paragraph 3bis of Annex C of the Administrative Instructions).</p>				
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>				
Date of submission of the demand		Date of completion of this report		
17.06.2010		10.10.2011		
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Fax: +49 89 2399 - 4465		Authorized officer Geißler, Christian Telephone No. +49 89 2399-4796		



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/IB2010/050072

Box No. I Basis of the report

1. With regard to the **language**, this report is based on
- ☒ the international application in the language in which it was filed
 - ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of:
 - ☐ international search (under Rules 12.3(a) and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4(a))
 - ☐ international preliminary examination (under Rules 55.2(a) and/or 55.3(a) and (b))
2. With regard to the **elements*** of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

Description, Pages

1-12 as originally filed

Claims, Numbers

1-20 as originally filed

Drawings, Sheets

1/9-9/9 as originally filed

- ☐ a sequence listing - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):
4. ☒ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since either they are considered to go beyond the disclosure as filed, or they were not accompanied by a letter indicating the basis for the amendments in the application as filed, as indicated in the Supplemental Box (Rules 70.2(c) and (c-bis)):
- ☐ the description, pages
 - ☒ the claims, Nos. 1-20 (according to numbering as filed with the demand, i.e. with separate claim numbers for cancelled claims)
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
5. ☐ This report has been established:
- ☐ taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rules 66.1(d-bis) and 70.2(e)).
 - ☐ without taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91(Rules 66.4bis and 70.2(e)).

**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/IB2010/050072

6. ☐ Supplementary international search report(s) from Authority(ies) has/have been received and taken into account in establishing this report (Rule 45bis.8(b) and (c)).

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	<u>5, 14</u>
	No: Claims	<u>1-4, 6-13, 15-20</u>
Inventive step (IS)	Yes: Claims	
	No: Claims	<u>1-20</u>
Industrial applicability (IA)	Yes: Claims	<u>1-20</u>
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item I

Basis of the report

1 Claim numbers

In the claim set as filed with the demand the claims have not been renumbered although some claims have been deleted compared to the original claim set. Nevertheless in the following section 2 the mentioned claim numbers, as far as they refer to the claim set as filed with the demand, are used as submitted by the applicant.

2 Amendments filed with the demand

2.1 The amendments filed with the demand **introduce subject-matter which extends beyond the content of the application as filed**, contrary to Article 34(2)(b) PCT for the following reasons:

2.2 One amendment concerns the introduction of feature "*a change ... that corresponds to interaction with an interactive voice response (IVR) system*" in independent claim 1. Although this feature resembles the feature of original dependent claim 4, the original expression "*prompts*" has been replaced by the above-cited expression "*interaction*". This replacement leads to a different subject-matter of amended claim 1 compared to the combination of original claims 1 and 4 and this subject-matter had not been disclosed in the application as filed.

2.3 Furthermore, in the context of the introduced feature of the previous section the original feature "*relate to a change in functionality of the user interface of the mobile device*" has been deleted. Neither the expression "*interaction*" nor the expression "*prompts*" (the latter in case that the wording of original claim 4 had been adopted) cover the meaning of the term "*functionality*" such that the deletion of this feature leads to an impermissible generalization compared to the subject-matter from the combination of original claims 1 and 4.

2.4 The third amendment is the introduction of feature "*to include a visual numeric keyboard configured to accept input from the user for responding to the IVR system*". Although this feature resembles original dependent claim 5, the part "*for responding to the IVR system*" has been additionally introduced for which no basis could be found, especially not in the original claim set.

- 2.5 Due to these reasons the amendments for claim 1 as filed with the demand are not allowable under Article 34(2)(b) PCT. Corresponding objections are also to be raised against the subject-matters of independent device claims 9 and 18 that correspond to method claim 1 and have been amended similarly.
- 2.6 Since the subject-matters of the amended claims filed with the demand do not fulfill the requirements of Art. 34(2)(b) PCT, the following assessment of novelty and/or inventive step is performed as if the amendments in the claims had not been made (Rule 70(2)(c) PCT). Consequently this **report is based on the claims as originally filed** and the claim numbers refer to these original claims.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 3 Reference is made to the following documents from the International Search Report:
- D1 US 2007/249406 A1 (ANDREASSON MARKUS M F [SE]) 25 October 2007 (2007-10-25)
- D2 US 2005/094782 A1 (KIM CHAN- WOO [KR]) 5 May 2005 (2005-05-05)
- D3 WO 2007/089967 A2 (CHACHA SEARCH INC [US]; JONES SCOTT A [US]) 9 August 2007 (2007-08-09)
- D4 US 2007/174244 A1 (JONES SCOTT A [US]) 26 July 2007 (2007-07-26)
- 4 Claim 1
- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of present independent method claim 1 is **not new** in the sense of Article 33(2) PCT.

4.1 Document D1 discloses, applying the wording of claim 1:

"A method comprising:

presenting, by a mobile device, a user interface through which a user of the mobile device interacts with the mobile device (D1, par. [0075], l. 1-9);

transcribing, by an audio recognition engine in the mobile device, audio from a voice session conducted through the mobile device (D1, par. [0079], l. 1-4);

detecting, by the mobile device and based at least on the transcribed audio, changes in context (D1: 'keywords') during the voice session that relate to a change in functionality of the user interface of the mobile device (D1, par. [0079], l. 6-9); and

updating, by the mobile device, the user interface in response to the detected change in context (D1, par. [0079], l. 9-14 and par. [0088], l. 13-29)."

Consequently, D1 anticipates the subject-matter of claim 1, which therefore fails to be novel (Art. 33(2) PCT).

4.2 It is to be mentioned that claim 1 also lacks novelty (Art. 33(2) PCT) with respect to each one of documents D2- D4 (see passages cited in the International Search Report).

5 Claims 9 and 18

Present independent device claims 9 and 18 correspond to present non-novel independent method claim 1. Therefore the subject-matters of claims 9 and 18 fail to fulfill the requirements under the PCT for the same reasons already explained for claim 1 (**lack of novelty**, Art. 33(2) PCT).

6 Claims 2-4, 6-8, 10-13, 15-17, 19 and 20

The subject-matters of present dependent method or device claims 2-4, 6-8, 10-13, 15-17, 19 and 20 are **not new** in the sense of Article 33(2) PCT, because the additional features of these claims are also disclosed in at least one of D1-D3 as follows:

Claim 2 (touch screen):	D1, par. [0075], l. 1-9
Claims 3 and 13 (pre-stored phrases):	D1, par. [0079], l. 6-9: "keywords"

Claims 4, 19 and 20 (prompt from IVR system):	D2, par. [0036]: " <i>telephone number service</i> "
Claims 6 and 15 (interactive elements):	D1, par. [0088], l. 21-25: " <i>links</i> "
Claims 7 and 16 (select telephone numbers):	D3, par. [0021], [0033], [0052]
Claims 8 and 17 (indication from user):	D1, par. [0088], l. 5-13
Claim 10 (current context):	D1, par. [0088], l. 13-29
Claim 11 (transcription):	D1, par. [0079], l. 1-4
Claim 12 (recognized commands):	D2, par. [0036]

7 Claims 5 and 14

The subject-matters of present dependent claims 5 (method) and 14 (device) do **not involve an inventive step** in the sense of Article 33(3) PCT for the following reasons:

D4 discloses a method as claimed in claim 1, cf. D4, par. [0040], [0041], [0063] and [0094]. Furthermore D4 also discloses an IVR scenario as claimed in claim 4 (on which claim 5 depends), cf. e.g. D4, par. [0041], last sentence or par. [0099], first sentence.

In D4 "*updating the user interface*" is realized by adapting the frames and buttons presented on the display to the context, cf. D4, par. [0094], l. 13-29. It would thus be obvious to the skilled person, if a context requires the input of digits, to "*include a visual numeric key pad*" as claimed in claims 5 and 14 without the exercise of inventive skill.

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June 17, 2010

European Patent Office
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Germany

Via Facsimile

**Re: International PCT Application No. PCT/IB2010/050072
Sony Ericsson Mobile Communications AB
Agents Ref. No. PS09 0483WO1**

Dear Sir:

We (Applicant) hereby request that the above identified PCT application be the subject of International Preliminary Examination under Chapter II of the PCT before the EPO as the International Preliminary Examining Authority (IPEA).

Claims

Replacement claims 1-3, 6-13, and 15-18 are hereby provided on the attached Replacement Sheets. The replacement claims include changes to original independent claims 1, 9, and 18 to improve form. Original dependent claims 3 and 6-8 have also been changed to improve form. Claims 4, 5, 14, 19, and 20 have been canceled without prejudice or disclaimer of the subject matter thereof. A copy of the original claims, including markups to show changes along with information identifying where in the application support can be found for the changes, is also attached for the convenience of the Examiner.

Examination is to be based on the attached replacement claims 1-3, 6-13, and 15-18.

Item V - Novelty/Inventive Step

With regard to Item V of the Written Opinion of the International Searching Authority (hereinafter referred to as the "Written Opinion"), the Examiner alleges that:

- (1) original independent claims 1, 9, and 18 lack novelty and/or inventive step in view of documents D1 (U.S. Patent Application Publication No. 2007/0249406), D2 (U.S. Patent Application Publication No. 2005/0094782), D3 (International Application No. WO 2007/089967), and D4 (U.S. Patent Application Publication No. 2007/0174244);
- (2) original dependent claims 2-4, 6-8, 10-13, 15-17, 19 and 20 lack novelty in view of documents D1, D2, and/or D3; and
- (3) original dependent claims 5 and 14 lack inventive step in view of document D4.



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Brief descriptions of documents D1-D4 are provided below. We respectfully disagree with the Examiner's allegations and request that the Examiner reconsider and withdraw the rejections in view of the amendments and the following arguments.

Document D1 discloses a system for retrieving information during a voice conversation session between communication terminals. Audio signals of the voice conversation may be passed to a speech recognition engine to identify keywords from the voice conversation. The identified keywords may then be used for locating and retrieving information related to the keywords and the retrieved information may be presented on the display of at least one of the communication devices (see Abstract). In one implementation, document D1 discloses passing the identified keywords to an information search engine (D1, paragraph 0083). In another implementation, document D1 discloses providing advertising information relating to the keywords (D1, paragraph 0090).

Document D2 discloses a telephone number retrieval system. A terminal requests a telephone number from a telephone number service. A voice response comprising the telephone number is received from the telephone number service. A feature vector sequence is stored in memory of the terminal as a reference pattern for the received voice response. A keyword spotting routine searches for the designated words. A number recognizer outputs a recognized telephone number for display on the terminal (see Abstract).

Document D3 is directed to target mobile device advertisements (see title). Targeted advertisements are provided to mobile device users based on one or more keywords in words spoken by the mobile device users. The users may submit voice requests using mobile phones or other mobile networked devices. Relevant keyword(s) are determined from the requests and corresponding advertisements and/or products associated with the keyword(s) are provided to the users while the users are waiting for responses to the requests (see Abstract).

Document D4 discloses a system that allows a query to be submitted to a query distribution server that locates a human searcher who can perform a search on the query. The searcher may perform the search using conventional search tools, such as a computer browser (see Abstract).

We initially note that claims 4-7, 14, 19, and 20 have been canceled. Accordingly, the rejection of claims 4-7, 14, 19, and 20 is moot. Replacement claims 1-3, 6-13, and 15-18 are novel and inventive with respect to documents D1-D4 because these references do not disclose one or more of the features recited in claims 1-3, 6-13, and 15-18.

Replacement independent claim 1 recites a method including presenting a user interface through which a user of a mobile device interacts with the mobile device and transcribing, by an audio recognition engine in the mobile device, audio from a voice session conducted through the mobile device. The method further includes detecting, by the mobile device and based at least



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on the transcribed audio, a change in context during the voice session that corresponds to interaction with an interactive voice response (IVR) system. The method may further include updating the user interface in response to the detected change in context to include a visual numeric keypad configured to accept input from the user for responding to the IVR system.

None of documents D1-D4, whether taken alone or in any reasonable combination, can be fairly construed to disclose or suggest one or more of the features recited in replacement independent claim 1. For example, documents D1-D4 fail to disclose or suggest detecting, by a mobile device and based at least on transcribed audio, a change in context during a voice session that corresponds to interaction with an IVR system and updating a user interface in response to the detected change in context to include a visual numeric keypad configured to accept input from the user for responding to the IVR system, as recited in replacement independent claim 1.

Document D1, for instance, discloses the identification of keywords from audio signals of a voice conversation and retrieving information related to the keywords. (D1, paragraphs 0082 and 0083). Document D1 does not mention an IVR. Paragraph 0036 of document D2 was cited as being relevant to the IVR, as previously recited in currently canceled claims 4, 19, and 20. This section of document D2 discloses:

In one example, a user calls a telephone number service, a voice response is received by the terminal of a user comprising 'The number is' is a designated keyword searched for in the keyword spotting routine. A reference vector sequence of numbers recognizes the connected words, which contain the telephone number, between the designated keywords. The numbers associated with the connected words are processed and displayed on the terminal for a user's use of stored in memory for future use.

This paragraph of document D2 relates to automatically extracting a telephone number that is audibly received from a telephone number service. The extracted telephone number may be displayed on the user's terminal. Automatically extracting a telephone number, however, does not disclose or suggest, as is recited in replacement claim 1: detecting, by a mobile device and based at least on transcribed audio, a change in context during a voice session that corresponds to interaction with an IVR system and updating a user interface in response to the detected change in context to include a visual numeric keypad configured to accept input from the user for responding to the IVR system.

The disclosures of documents D3 and D4 do not remedy the above deficiencies in the disclosure of documents D1 and D2. For example, documents D3 and D4 fail to disclose an IVR system, much less the recited method of detecting, by a mobile device and based at least on transcribed audio, a change in context during a voice session that corresponds to interaction with an IVR system and updating a user interface in response to the detected change in context to

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include a visual numeric keypad configured to accept input from the user for responding to the IVR system.

Moreover, in contrast to documents D1-D4, Applicant's invention assists in the technical problem of presenting a relevant user interface on a device with limited space for a user interface. As described in the specification, a device may increase the effectiveness of the display area by updating the display based on the current context of the conversation. (Specification, page 11, lines 19-21). When interacting with an IVR system, for example, a keypad may be useful for responding to the IVR. (Specification, page 10, lines 3 and 4). Documents D1 and D3, in contrast, appears to be directed to automatically obtaining information for presentation to the user. D2 and D4 are also not pertinent to the presentation of a relevant user interface on a device. Thus, documents D1-D4 do not solve the same technical problem solved by the invention recited in replacement claim 1.

Even assuming, for the sake of argument, that one of D1-D4 could reasonably be construed to disclose the same technical problem as Applicant's disclosure, D1-D4 can not be said to solve the problem in the same manner as the invention recited in Applicant's claims. ore particularly, D1-D4 fail to disclose or suggest detecting, by a mobile device and based at least on transcribed audio, a change in context during a voice session that corresponds to interaction with an IVR system and updating a user interface in response to the detected change in context to include a visual numeric keypad configured to accept input from the user for responding to the IVR system, as recited in replacement independent claim 1.

For at least these reasons, claim 1 is novel and has an inventive step with respect to documents D1-D4. Thus, claim 1 meets the novelty and inventive step requirements with respect to documents D1-D4, whether taken alone or in any reasonable combination.

Dependent claims 2, 3, and 6-8 depend from replacement independent claim 1. Therefore, claims 2, 3, and 6-8 meet the novelty and inventive step requirements with respect to documents D1-D4, whether taken alone or in any reasonable combination, for at least the reasons replacement claim 1 meets these requirements.

Replacement independent claims 9 and 18 recite features similar to (yet possibly of different scope than) features described above with respect to replacement claim 1. Therefore, replacement claims 9 and 18 meet the novelty and inventive step requirements with respect to documents D1-D4, whether taken alone or in any reasonable combination, for at least reasons similar to reasons set forth above with respect to replacement claim 1.

Dependent claims 10-13 and 15-17 depend from replacement independent claim 9. Therefore, claims 10-13 and 15-17 meet the novelty and inventive step requirements with respect to documents D1-D4, whether taken alone or in any reasonable combination, for at least the reasons replacement claim 9 meets these requirements.

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Conclusion

Based on the discussion above, we respectfully request the issuance of a positive International Report on Patentability from the IPEA based on replacement claims 1-3, 6-13, and 15-18 filed herewith.

Respectfully submitted,

HARRITY & HARRITY, LLP

By: 

John E. Harrity
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For and on Behalf of Applicant
Sony Ericsson Mobile Communications AB

Attachments: Replacement claims
Marked-up copy of amended claims

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REPLACEMENT CLAIMS

1. A method comprising:
presenting, by a mobile device, a user interface through which a user of the mobile device interacts with the mobile device;
transcribing, by an audio recognition engine in the mobile device, audio from a voice session conducted through the mobile device;
detecting, by the mobile device and based at least on the transcribed audio, a change in context during the voice session that corresponds to interaction with an interactive voice response (IVR) system ; and
updating, by the mobile device, the user interface in response to the detected change in context to include a visual numeric keypad configured to accept input from the user for responding to the IVR system.
2. The method of claim 1, where the user interface is presented through a touch screen display.
3. The method of claim 1, where detecting the change in the context includes:
matching the transcribed audio to one or more pre-stored phrases.
4. (canceled)
5. (canceled)
6. The method of claim 1, further comprising:
updating the user interface to include interactive elements generated dynamically based on the voice session.



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7. The method of claim 1, where detecting the change in the context further includes:
detecting changes in the context for select telephone numbers corresponding to the voice session.
8. The method of claim 1, where detecting the change in the context further includes:
detecting the change in the context in response to an explicit indication from the user that the voice session is one for which context changes should be detected.
9. A mobile communication device comprising:
a touch screen display;
an audio recognition engine to receive audio from a called party during a voice session through the mobile communication device;
a context match component to:
receive an output of the audio recognition engine,
based on the output, determine whether a change in context, that corresponds to interaction with an interactive voice response (IVR) system, occurs during the voice session, and update, in response to the detected change in context, a user interface presented on the touch screen display to present a visual numeric keypad configured to accept numeric input from the user; and
a user interface control component to control the touch screen display to present the updated user interface.
10. The mobile communication device of claim 9, where the context match component is further to update the user interface to include additional functionality relevant to a current context of the voice session.



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11. The mobile communication device of claim 9, where the audio recognition engine is further to output a transcription of audio received from the called party.

12. The mobile communication device of claim 9, where the audio recognition engine is further to output an indication of commands recognized in audio corresponding to the called party.

13. The mobile communication device of claim 9, where the context match component is further to determine whether to update the user interface based on a matching of the output of the audio recognition engine to one or more pre-stored phrases.

14. (canceled)

15. The mobile communication device of claim 9, where the user interface control component is further to update the user interface to include interactive elements generated dynamically based on the voice session.

16. The mobile communication device of claim 9, where the context match component is further to determine whether to update the user interface for select telephone numbers corresponding to the voice session.

17. The mobile communication device of claim 9, where the context match component is further to determine whether to update the user interface in response to an explicit indication from the user that the voice session is one that should be monitored by the context match component.

18. A mobile device comprising:



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means for presenting a user interface through which a user of the mobile device interacts with the mobile device;

means for transcribing audio from a voice session conducted through the mobile device;

means for detecting, based at least on the transcribed audio, a change in context during the voice session that corresponds to interaction with an interactive voice response (IVR) system; and

means for updating the user interface in response to the detected change in context to include a visual numeric keypad configured to accept input from the user for responding to the IVR system.

19. (canceled)

20. (canceled)